

## Message Text

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PAGE 01 VIENNA 02888 01 OF 02 241553Z  
ACTION OES-07

INFO OCT-01 EUR-12 ISO-00 OIC-02 ACDA-12 CIAE-00  
INR-10 IO-14 L-03 NSAE-00 NSC-05 EB-08 NRC-07  
SOE-02 DODE-00 SS-15 SP-02 CEQ-01 /101 W  
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R 241536Z MAR 78  
FM AMEMBASSY VIENNA  
TO SECSTATE WASHDC 5731  
INFO USDOEHQ WASHDC  
USDOEHQ GERMANTOWN

UNCLAS SECTION 01 OF 02 VIENNA 02888

USIAEA

DEPT PASS IO/SCT, IO/OIC, S/AS/FARLEY, OES/BORIGHT, AND  
ACDA/ROCHLIN

DOEHQ WASHDC PASS A. GIAMBUSSO

E.O. 11652: N/A  
TAGS: ENRG, TECH  
SUBJECT: INFCE: REPORT OF WORKING GROUP 7, SUB-GROUPS  
A AND B, MARCH 20-23, 1978

1. U.S. PARTICIPANTS: C. COOLEY (DOE), C. W. KUHLMAN  
(DOE), AND A. PLATT (BATTELLE NORTHWEST LABORATORY).

2. THE FORMAT OF THE MEETING TURNED OUT TO BE DIFFERENT  
FROM THE ANTICIPATED INFORMAL WORKING SESSION OF A SMALL  
GROUP OF WORKING PARTICIPANTS. SIXTEEN COUNTRIES PLUS  
THE CEC AND IAEA ATTENDED WITH ABOUT SIX PARTICIPATING  
ACTIVELY. POLAND AND ROMANIA ATTENDED BUT WERE SILENT.

3. THE U.S. CONTRIBUTED TWO WORKING PAPERS: A DETAILED  
DESCRIPTION OF WASTE ARISINGS FROM THE REFERENCE FUEL  
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PAGE 02 VIENNA 02888 01 OF 02 241553Z

CYCLES AND AN OUTLINE OF FACTORS TO BE ESTABLISHED FOR  
DETAILED DESCRIPTION OF A REPOSITORY SUFFICIENT FOR  
ECONOMIC AND SAFETY ANALYSIS. GENERAL CONCURRENCE WAS  
REACHED ON TENTATIVE VALUES FOR VOLUMES AND ACTIVITIES  
FOR CONDITIONED WASTES FROM THE FIVE REFERENCE FUEL  
CYCLES. THE DEPLETED URANIUM TAILS FROM ENRICHMENT WERE  
IDENTIFIED AS A WASTE FROM THE LWR ONCE-THRU AND THE LWR

PU FUEL CYCLES. THIS IS SIGNIFICANT SINCE PERMANENT DISPOSAL OF THE ENRICHMENT TAILS HAS NOT GENERALLY BEEN INCLUDED IN CALCULATION OF WASTE MANAGEMENT IMPACTS. THE ONCE-THRU FUEL CYCLE WILL BE MOST HEAVILY AFFECTED BECAUSE OF THE GREATER URANIUM CONSUMPTION. THE U.S. VOLUNTEERED A PAPER TREATING THE CONDITIONING AND LONG-TERM DISPOSAL OF THIS MATERIAL.

4. REFERENCE CONDITIONING TECHNOLOGY WAS SELECTED FOR HIGH-LEVEL AND TRU WASTE FROM REPROCESSING PLANTS. REFERENCE PACKAGING TECHNOLOGY FOR SPENT FUEL ELEMENTS WAS NOT SELECTED LARGELY BECAUSE DIFFERING VIEWS OF SWEDEN AND UNITED STATES ON COMPLEXITY OF PACKAGING REQUIRED. THE PROBLEM WILL BE ADDRESSED AT THE NEXT SUB-GROUP MEETING IN CONNECTION WITH SELECTION OF REFERENCE REPOSITORY TECHNOLOGY.

5. AFTER CONSIDERABLE DISCUSSION, IT WAS DECIDED TO LEAVE REPOSITORY DEFINITION TO THE NEXT SUB-GROUP MEETING. THERE WAS WIDESPREAD DISINCLINATION TO DEFINE A REPOSITORY IN SUFFICIENT DETAIL TO PERMIT ECONOMIC AND SAFETY ANALYSIS. THE U.S. PAPER ON THIS SUBJECT WAS NOT USED.

6. IN ADDITION TO THE COMMITTEE PAPERS, A PLAN FOR GUIDANCE OF FUTURE ASSIGNMENTS WAS DEVELOPED THAT UNCLASSIFIED

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PAGE 03 VIENNA 02888 01 OF 02 241553Z

SYSTEMATICALLY COVERS SELECTION AND DESCRIPTION OF TECHNOLOGY FOR ALL WASTES FROM THE FIVE REFERENCE FUEL CYCLES. THIS PLAN WAS DEVELOPED LARGELY DUE TO THE INITIATIVE OF THE AUSTRALIAN DELEGATE. FURTHER USE OF THE PLAN IS TO BE AT THE DISCRETION OF THE WG-7 CO-CHAIRMEN AT THE MAY MEETING.

7. FOLLOWING WORK COMMITMENTS WERE AGREED TO:

- ARGENTINA - SOURCE TERMS MINING AND MILLING UNIT
- AUSTRALIA - MINING WASTES
- BELGIUM - CONDITIONING TRU WASTE FOR WET REPOSITORY
- CANADA - MILL TAILINGS;
  - REVISION OF HWR WASTE ARISING TABLE;
  - CONDITIONING, TRANSPORT AND DISPOSAL OF HWR;
  - FUEL AND FUEL CYCLE WASTES;
- FRANCE - DESCRIPTION OF AVM PROCESS FOR HIGH-LEVEL WASTE VITRIFICATION
- GERMANY - CONDITIONING OF TRU WASTES FOR A DRY REPOSITORY;
- DESCRIPTION OF ASSUMPTIONS FOR REFERENCE WASTE ARISING NUMBER ADOPTED BY THE SUB-GROUP;

- - CONDITIONING AND DISPOSAL OF CONVERSION WASTES
- AND TAILS IF INFORMATION AVAILABLE
- SWEDEN - INTERIM STORAGE OF HLW PACKAGED FOR "WET"
- REPOSITORIES
- FRG/NETHERLANDS - DESCRIPTION OF CONDITIONING OF TRU
- WASTES FROM REPROCESSING, DESCRIPTION OF DOMAL
- SALT REPOSITORY FOR WASTES FROM REPROCESSING
- CYCLE
- UNITED STATES - PAPER ON CONDITIONING AND DISPOSAL OF
- ENRICHMENT WASTES;

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PAGE 01 VIENNA 02888 02 OF 02 241557Z

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UNCLAS SECTION 02 OF 02 VIENNA 02888

- - PAPER ON U.S. TRANSPORT SYSTEMS FOR ALL LWR
- FUEL CYCLE STRATEGIES;
- - PAPER ON CONDITIONING OF SPENT FUEL;
- - PAPERS ON DESCRIPTION OF BEDDED SALT
- REPOSITORY AND GRANITE REPOSITORY FOR DISPOSAL
- OF SPENT FUEL AND WASTES FROM LWR FUEL CYCLE
- WITH REPROCESSING, A LISTING OF REFERENCE
- INFORMATION AND SUMMARY OF INFORMATION ON
- PU MIGRATION AND CONDITIONING REQUIREMENTS FOR
- WET AND DRY GEOLOGIC CONDITIONS

8. ATTENDANCE: SUBGROUP A - ARGENTINA, AUSTRALIA, AUSTRIA, CANADA, FINLAND, FRANCE, GERMANY (FRG), JAPAN, NETHERLANDS, SWEDEN, UNITED STATES, CEC, IAEA. (WHILE NOT REGISTERED, THE DELEGATES FROM POLAND AND ROMANIA TO SUB-GROUP B REMAINED FOR THE FIRST DAY OF THE MEETING.)  
SUB-GROUP B - ALL DELEGATIONS ATTENDING SUB-GROUP A PLUS BELGIUM, ITALY, POLAND, ROMANIA, AND THE UNITED KINGDOM.

9. COMMENT: ONLY THE U.S. AND CANADA CONTRIBUTED USABLE DOCUMENTS TO THE MEETING. THERE WAS GENERAL FEELING THAT WG-7 AND ITS SUB-GROUPS WERE MEETING TOO FREQUENTLY TO PERMIT GOOD WORK. A PRONOUNCED FEELING ON THE PART OF A UNCLASSIFIED

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PAGE 02 VIENNA 02888 02 OF 02 241557Z

NUMBER OF IMPORTANT COUNTRIES THAT WG-7 WAS TOO MUCH A DISTRACTION OF PEOPLE FROM THEIR NATIONAL PROGRAM JOBS.

- A CHANGE IN THE SUB-GROUP WORKING METHOD FOR WG-7 IS BEING CONSIDERED BY THE CO-CHAIRMEN FOR POSSIBLE IMPLEMENTATION FOLLOWING THE NEXT MEETING.

10. NEXT MEETING: SUB-GROUP A, MAY 9 AND SUB-GROUP B, MAY 10; WG-7, MAY 11-12; ALL IN VIENNA. PROVISIONAL AGENDA FOR THE SUB-GROUP MEETINGS WERE DISTRIBUTED. LEAHY

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## Message Attributes

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